indicated by bold and italia or underlined typefaces. FGFA is the shortest variant containing none of these highlighted sequences. The signal peptide is expected to be cleaved C-terminally to Ala22. The two dysteine residues found in mature FGF3 (all isotorms) are indicated by thick underlining. The two potential N-glycosylation sites of FGF8b are indicated by N. Numbering is according to FGF8b.--

Please replace the paragraph beginning on page 14, line 25, with the following rewritten paragraph:

--Fig. 6: Illustrations of the four different variants of FGF6b designed for autovaccination. Upper panel: Theoretical models of the insertion-points of the epitopes using the FGF2 crystal structure as template. Lower panel: Amino acid sequences of the wild type FGF8b (WT) and the four variants F30N, F2I, F30I, and F2C (SEQ ID NOS: 35-39, respectively). The signal peptide is marked with single underlining. The inserted peptides are marked with double underlining. The Neterminal sequence (MetAla) of all variants is due to generation of a Kozak-sequence (Kozak 1991) for better translation in eukaryotic systems.--

Flease replace the paragraph beginning on page 31, line 17, with the following rewritten paragraph:

--One especially preferred PADRE peptide is the one having the amino acid sequence AKFVAAWTLKAAA SEQ II NO: 40° or an

immunologically effective subsequence there f. This, and other epitopes having the same lack of MHC restriction are preferred T-cell epitopes which should be present in the analogues used in the inventive method. Such super-promiscuous epitopes will allow for the most simple embodiments of the invention wherein only one single analogue is presented to the vaccinated animal's immune system.—

Please replace the paragraph beginning on page 89, line 22, with the following rewritten paragraph:

--Hence, an important embodiment of the methods of the invention is one wherein the foreign T-cell epitope is introduced in a part of the Her2 amino acid sequence defined by the amino acid numbering in SEQ ID NO: 3 (also shown in SEQ ID NO: 4) positions 5-25 and/or 59-73 and/or 103-117 and/or 149-163 and/or 210-224 and/or 250-264 and/or 325-339 and/or 369-363 and/or 465-479 and/or 579-593 and/or 632-652 and/or 653-667 and/or 661-675 and/or 695-709 and/or 710-730, cf. the Examples.--

Please replace the paragraph beginning on page 96, line 7, with the following rewritten paragraph:

--FGF8b has by several investigators been shown very efficient in inducing the transformation of NIH3T3 or SC115 cells (Miyashita 1994, Kouhara 1994, Lorenzi 1995, MacArthur 1995a). By using recombinantly expressed proteins, it has also been shown that this induction of morphological changes is far more efficient with FGF8b than when using FGF8a or FGF-c MacArthur 1995a, Ghosh 1996. Interestingly, the N-terminal half of the

FOFFb molecule alone, was shown to be sufficient for transformation of NIH3T3 cells, and even the small FGF8b specific peptide (QVTVQSSPNFT)(SEQ ID NO: 41) could enable the cells to grow 2-3 times longer than normal in 0.1\* serum (Eudra-Ganguly 1998). Furthermore, NIH3T3 cells stably transfected with an expression vector encoding FGF8b has been reported to be very tumcrigenic when injected intraocularly into nude mice (Kouhana 1994, Ghosh 1996).--

Please replace the paragraph beginning on page 101, line 29, with the following rewritten paragraph:

-Hence, the invention also relates to embodiments of the methods described herein where, where the foreign T-cell epitope is introduced in a part of the FGF8b amino acid sequence defined by SEC ID NO: 6 (encoded by nucleotide sequence SEQ ID NO: 5) positions 1-54 and/or 178-215 and/or 55-58 and/or 63-68 and/or 72-76 and/or 85-91 and/or 95-102 and/or 106-111 and/or 115-120 and/or 128-134 and/or 138-144 and/or 149-154 and/or 158-162 and/or 173-177. It should be noted that it is especially preferred not to introduce variations or modifications in positions 26-45 and in the Coterminus starting at amino acids 186-215, since these stretches show the least nomology with a recently discovered protein, FGF-18, which seems to be expressed in a variety of non-tumour tissues.--

Please replace the paragraph beginning on page 114, line 1, with the following rewritten paragraph:

--The expressed hPSM mutant proteins will be designated PROS\_.\_, where the first \_ is the insertion region used for insertion of P2, and the second \_ is the insertion region used for P30. If P2 or P30 is not present in the protein, the number 0 zero) is designated. The wild type hPSM is designated PROSO.(. FROSIIO.0 is the hPSM amino acids 437-750 protein product. HIS tagged proteins are called HIS-PROS\_.\_.

As His tags has been used SEQ ID NO: 21 (amino acid sequence shown in SEQ ID NO: 23 (amino acid sequence shown in SEQ ID NO: 23 (amino acid sequence shown in SEQ ID NO: 23 (amino acid sequence shown in SEQ ID NO: 24) has been used for expression in mammalian cells.--

Please replace the paragraph beginning on page 117, line 21, with the following rewritten paragraph:

--A strain of *Pichia pastoris* as well as two different expression vectors have been purchased from Invitrogen. The vector pPICZ $\forall$ A carries a methanol inducible promoter upstream of the polyploning site, whereas the pGAPZ $\forall$ A vector express proteins constitutively. Both vectors encode the  $\forall$ -factor secretion signal in order to export the recombinant proteins to the medium. The selection system of these vectors is zecoin resistance. The sequences encoding hPSM0.0, and hFSM)0.0 (as well as one hPSM mutant, hPSM1.1, cf. below) were subcloned into these vectors (in-frame with a C-terminal b-myc identification epitope, SEQ ID NO: 27 (amine acid sequence shown in SEQ ID NO: 28)).--

Please replace the paragraph beginning on page 128, line 16, with

the following rewritten paragraph:

--Durrently, various DNA vaccination emperiments are ongoing using nPSM constructs. Various human PSM wildtype and AutoVac constructs (such as e.g. hPSM0.0, hPSM)0.0, hPSM'0.0, hPSM1.1, hPSM10.3) have been subclined into DNA vaccination vectors (such as pcDNA3.1(+), pcDNA3.1(-), pVAX and pDeoSV2). In some of the constructions, different leader sequences (such as the CD11a, tPA, and IL-5 leader sequences; nucleotide SEQ ID NCS: DP, 25, and 31, and amino acid SEQ ID NCS: 30, 26, and 32, respectively) have been included directly N-terminally and inframe to allow secretion of the expressed hPSM proteins in vivo. All the constructions in DNA vaccination vectors have been verified by DNA sequencing and in vitro translation.--

Please replace the paragraph beginning on page 153, line 16, with the following rewritten paragraph:

--The internal variants of FGF8b (F30I and F2I) were constructed by replacing external loops in the FGF2 structure with the epitopes P30 and P2, respectively, whereby the betabarrel structural backbone of the FGF structure presumably will remain unchanged.--

Please delete the substitute Sequence Listing filed June 19, 2001. Please insert the second Substitute Sequence Listing enclosed herewith immediately after the abstract.